**Goal 2 Day 9**

**Solving Word Problems**

When we look at word problems we need to be able to read the problem and pick out the pertinent information.

We will take out the info and create a solvable equation.

The first type of word problems we will work with are money or purchasing problems.

*Ex. A customer went into a bakery and bought a cake for $20.50 and they also bought five donuts. The total bill was $24.25. Find the cost of one donut.*

We will need to determine which item will require a variable. Often your will know how much one item cost and then you will also know the total amount spent.

The next step in the problem would be to set up an equation that we can use to solve for the missing value.

Now we will solve for the variable.

Ex. A lady went to Home Depot and bought some potting soil for $17.50 and 4 shrubs. The total for the purchase was $53.50. Find the cost of each shrub.

Ex. You decide to throw a 16th birthday party for yourself. The hall charges you $25 per person that attends. They also charge you an additional $150 to rent the hall. How many people did you invite if you were charged $1300?

Ex. You earn $9 an hour at your job after school. If you work major holidays (X-mas, Thanksgiving, etc.) you make double time. You earned a total of $405 for the week which included one holiday. If you worked a total of 35 hours the rest of the week, how many hours did you work on the holiday?

Ex. You are planning a wedding and have exactly $8320 to spend on food. Each plate costs $55 and it costs $1500 to rent the hall. How many people can you invite to the wedding?